

DERWENT-ACC-NO: 1979-70245B

DERWENT-WEEK: 197939

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TITLE: Ink for hot ink jet recording process -  
contains recording component decomposing at temp. well  
above b.pt. of solvent or dispersion medium

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PRIORITY-DATA: 1978JP-0024627 (March 3, 1978)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
DE 2908091 A	September 20, 1979	N/A
000 N/A		
DE 2908091 C	February 16, 1989	N/A
000 N/A		
JP 54117205 A	September 12, 1979	N/A
000 N/A		
JP 81018627 B	April 30, 1981	N/A
000 N/A		
US 4243994 A	January 6, 1981	N/A
000 N/A		

INT-CL (IPC): B41J003/20, B41M005/00 , C09D011/16 , G01D015/18

ABSTRACTED-PUB-NO: DE 2908091A

BASIC-ABSTRACT:

Ink for hot ink jet recording process contains a recording constituent (I) and a solvent or dispersion medium (II). The temp. difference, DELTA T, between the decompn. temp. of the component of the ink with the lowest decompn. temp. and the b.pt. of pure (II) is not <30 (is not <40, esp. is not <50) degrees C. (I) can be a water-soluble dyestuff and (II) water, opt. mixed with

a water-soluble solvent; or (I) a water-insol. dyestuff and (II) a water-insol. solvent. In use at ambient temp., the ink contains 0.01 ml/ml of an (inert) gas, pref. N2, O2, CO2 or Ar, calculated at 0 degree C and 1.013 bar. The heat energy consumption is very low and the response to heat energy sufficient for high speed recording with single or multiple jets.

The ink has excellent stability of droplet formation and gives high quality recordings of satisfactory density, without incidental spots, even after prolonged continuous operation.

TITLE-TERMS: INK HOT INK JET RECORD PROCESS CONTAIN RECORD COMPONENT  
·DECOMPOSE

TEMPERATURE WELL ABOVE SOLVENT DISPERSE MEDIUM

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DERWENT-CLASS: G02 P75

CPI-CODES: G02-A04A;